

APPENDIX 4

The silica used to prepare the invention can be that used to prepare conventional porous silica flatting agents, provided the silica has a pore volume in the range of 0.8 to 1.4 cc/g. Preferably, the pore volume of the silica is in the range of 0.9-1.2 cc/g. The pore volume referred to herein is determined by nitrogen porosimetry, described later below.

APPENDIX 2

The aforementioned objects are unexpectedly obtained by employing silica matting agents having a maximum pore volume of 1.4 ml/g and a wax content of at least 15% and maximum of 30 % by weight. The wax content typically is in the range of 18 to 22% by weight. The wax preferably has a melting point in the range of 60-120°C, and most preferably in the range of 60-90°C. The matting efficiency of the agent is also affected by the particle size of the invention. The invention has a median particle size in the range of 2.0-12.0 μm , with a preferred range of 2.0-5.0 μm . It is also unexpected that the matting agents having particles sizes in the lower part of above ranges can enhance matting efficiency further without significant adverse affects on the viscosity of the coating composition.